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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,673	06/25/2003	Kazuhito Matsukawa	239120US0 DIV	1975
22850	22850 7590 12/03/2004		EXAMINER	
-	IVAK, MCCLELLAN	ERDEM, FAZLI		
	1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
	,		2826	

DATE MAILED: 12/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summany		Application No.	Applicant(s)			
		10/602,673	MATSUKAWA, KAZUHITO			
	Office Action Summary	Examiner /	Art Unit			
		Fazli Erdem	2826			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	Responsive to communication(s) filed on 09 S	September 2004.	•			
2a)□		s action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5) <u>⊠</u>	Claim(s) 1-4,6,8-12,17 and 18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 1-4,6,8-12 and 17 is/are allowed. Claim(s) 18 is/are rejected. Claim(s) is/are objected to.					
Applicati	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	• •					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (P10-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		atent Application (PTO-152)			

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-4, 6, 8-12 and 17 allowed.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 18 rejected under 35 U.S.C. 103(a) as being unpatentable over Kalkhoran et al. (5,726,40) in view of Sadana et al. (6,259,137).

Regarding Claims 1, 3-5, 7-12 and 17, Kalkhoran et al. discloses a wavelength selective photodetector where in Fig. 1, silicon dioxide insulating layer 102 divides substrate 102 into layer 108 and 110. Insulating layer 102 extends throughout the substrate 106. Kalkhoran et al. fail to disclose the required semiconductor buried oxide insulation thickness. However, Sadana et al. disclose a defect induced buried oxide for throughput SOI where in Fig. 3 and Claims 1, 6 and 15 the required buried oxide thickness is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required buried oxide thickness in Kalkhoran et al. Application/Control Number: 10/602,673

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as taught by Sadana et al. in order to have a semiconductor structure with increased

performance.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The

examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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November 28, 2004